

# SEQUENCE LISTING

<110> Valenzuela et al.

<120> DORSAL TISSUE AFFECTING FACTOR AND COMPOSITIONS

<130> REG132-B1

<140> Not Yet Known

<141> Filed Herewith

<150> 09/167,874

<151> 1998-10-07

<150> 08/485,721

<151> 1995-07-06

<150> 08/392,935

<151> 1995-09-22

<150> PCT/US93/08326

<151> 1993-09-02

<150> 07/957,401

<151> 1992-10-06

<150> 07/950,410

<151> 1992-09-23

<150> 07/939,954

<151> 1992-09-03

<160> 22

<170> PatentIn Ver. 2.0

<210> 1

<211> 699

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(696)

<400> 1

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Met Glu Arg Cys Pro Ser Leu Gly Val Thr Leu Tyr Ala Leu Val Val

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15

gtc ctg ggg ctg cgg gcg aca ccg gcc ggc ggc cag cac tat ctc cac 96

098973223 070204

Val Leu Gly Leu Arg Ala Thr Pro Ala Gly Gly Gln His Tyr Leu His  
 20 25 30

atc cgc ccg gca ccc agc gac aac ctg ccc ctg gtg gac ctc atc gaa 144  
 Ile Arg Pro Ala Pro Ser Asp Asn Leu Pro Leu Val Asp Leu Ile Glu  
 35 40 45

cac cca gac cct atc ttt gac ccc aag gaa aag gat ctg aac gag acg 192  
 His Pro Asp Pro Ile Phe Asp Pro Lys Glu Lys Asp Leu Asn Glu Thr  
 50 55 60

ctg ctg cgc tcg ctg ctc ggg ggc cac tac gac cca ggc ttc atg gcc 240  
 Leu Leu Arg Ser Leu Leu Gly Gly His Tyr Asp Pro Gly Phe Met Ala  
 65 70 75 80

acc tcg ccc ccc gag gac cgg ccc ggc ggg ggc ggg ggt gca gct ggg 288  
 Thr Ser Pro Pro Glu Asp Arg Pro Gly Gly Gly Gly Gly Ala Ala Gly  
 85 90 95

ggc gcg gag gac ctg gcg gag ctg gac cag ctg ctg cgg cag cgg ccg 336  
 Gly Ala Glu Asp Leu Ala Glu Leu Asp Gln Leu Leu Arg Gln Arg Pro  
 100 105 110

tcg ggg gcc atg ccg agc gag atc aaa ggg cta gag ttc tcc gag ggc 384  
 Ser Gly Ala Met Pro Ser Glu Ile Lys Gly Leu Glu Phe Ser Glu Gly  
 115 120 125

ttg gcc cag ggc aag aag cag cgc cta agc aag aag ctg cgg agg aag 432  
 Leu Ala Gln Gly Lys Lys Gln Arg Leu Ser Lys Lys Leu Arg Arg Lys  
 130 135 140

tta cag atg tgg ctg tgg tcg cag aca ttc tgc ccc gtg ctg tac gcg 480  
 Leu Gln Met Trp Leu Trp Ser Gln Thr Phe Cys Pro Val Leu Tyr Ala  
 145 150 155 160

tgg aac gac ctg ggc agc cgc ttt tgg ccg cgc tac gtg aag gtg ggc 528  
 Trp Asn Asp Leu Gly Ser Arg Phe Trp Pro Arg Tyr Val Lys Val Gly  
 165 170 175

agc tgc ttc agt aag cgc tcg tgc tcc gtg ccc gag ggc atg gtg tgc 576  
 Ser Cys Phe Ser Lys Arg Ser Cys Ser Val Pro Glu Gly Met Val Cys  
 180 185 190

aag ccg tcc aag tcc gtg cac ctc acg gtg ctg cgg tgg cgc tgt cag 624  
 Lys Pro Ser Lys Ser Val His Leu Thr Val Leu Arg Trp Arg Cys Gln  
 195 200 205

cgg cgc ggg ggc cag cgc tgc ggc tgg att ccc atc cag tac ccc atc 672

Arg Arg Gly Gly Gln Arg Cys Gly Trp Ile Pro Ile Gln Tyr Pro Ile  
 210 215 220

att tcc gag tgc aag tgc tcg tgc tag  
 Ile Ser Glu Cys Lys Cys Ser Cys  
 225 230

699

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 <212> PRT  
 <213> Homo sapiens

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 Met Glu Arg Cys Pro Ser Leu Gly Val Thr Leu Tyr Ala Leu Val Val  
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Val Leu Gly Leu Arg Ala Thr Pro Ala Gly Gly Gln His Tyr Leu His  
 20 25 30

Ile Arg Pro Ala Pro Ser Asp Asn Leu Pro Leu Val Asp Leu Ile Glu  
 35 40 45

His Pro Asp Pro Ile Phe Asp Pro Lys Glu Lys Asp Leu Asn Glu Thr  
 50 55 60

Leu Leu Arg Ser Leu Leu Gly Gly His Tyr Asp Pro Gly Phe Met Ala  
 65 70 75 80

Thr Ser Pro Pro Glu Asp Arg Pro Gly Gly Gly Gly Gly Ala Ala Gly  
 85 90 95

Gly Ala Glu Asp Leu Ala Glu Leu Asp Gln Leu Leu Arg Gln Arg Pro  
 100 105 110

Ser Gly Ala Met Pro Ser Glu Ile Lys Gly Leu Glu Phe Ser Glu Gly  
 115 120 125

Leu Ala Gln Gly Lys Lys Gln Arg Leu Ser Lys Lys Leu Arg Arg Lys  
 130 135 140

Leu Gln Met Trp Leu Trp Ser Gln Thr Phe Cys Pro Val Leu Tyr Ala  
 145 150 155 160

Trp Asn Asp Leu Gly Ser Arg Phe Trp Pro Arg Tyr Val Lys Val Gly  
 165 170 175

Ser Cys Phe Ser Lys Arg Ser Cys Ser Val Pro Glu Gly Met Val Cys

180

185

190

Lys Pro Ser Lys Ser Val His Leu Thr Val Leu Arg Trp Arg Cys Gln  
 195 200 205

Arg Arg Gly Gly Gln Arg Cys Gly Trp Ile Pro Ile Gln Tyr Pro Ile  
 210 215 220

Ile Ser Glu Cys Lys Cys Ser Cys  
 225 230

&lt;210&gt; 3

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; frog and mouse

&lt;400&gt; 3

Gln Met Trp Leu Trp Ser Gln Thr Phe Cys Pro Val Leu Tyr  
 1 5 10

&lt;210&gt; 4

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; frog and mouse

&lt;400&gt; 4

Arg Phe Trp Pro Arg Tyr Val Lys Val Gly Ser Cys  
 1 5 10

&lt;210&gt; 5

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; frog and mouse

&lt;400&gt; 5

Ser Lys Arg Ser Cys Ser Val Pro Glu Gly Met Val Cys Lys  
 1 5 10

&lt;210&gt; 6

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; frog and mouse

&lt;400&gt; 6

03897322-070200  
 103020-22226860

Leu Arg Trp Arg Cys Gln Arg Arg

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<212> PRT

<213> frog and mouse

<400> 7

Ile Ser Glu Cys Lys Cys Ser Cys

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<210> 8

<211> 36

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:oligonucleotide

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<210> 9

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide

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ccaagcttct agaattcgca ggaacactta cactcgg

37

<210> 10

<211> 1180

<212> DNA

<213> mouse

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<221> CDS

<222> (421)..(1116)

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 <222> (16)  
 <223> n=a, c, g, or t

<220>  
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 <222> (235)  
 <223> n=a, c, g, or t

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 tcgaaattaa ccctcactaa agggaacaaa agctggagct ccaccgcggt ggcggccgcc 180  
 ttcccaagta gagcggcggg ggggaattgc gaccaactcg tgcggtctt ctgcnccgcg 240  
 gcgggagccg gcgctgcgcg aacggctctc ctgcagctc atgctgcctg ccctgcgcct 300  
 gctcagcctc gggtagcca cctccggagg gaccggggag cgcggcagcg ccgcggactc 360  
 ggcgtgctct cctccgggga cgcgggacga agaggcagcc ccggggcgcg cgcgggaggc 420  
 atg gag cgc tgc ccc agc ctg ggg gtc acc ctc tac gcc ctg gtg gtg 468  
 Met Glu Arg Cys Pro Ser Leu Gly Val Thr Leu Tyr Ala Leu Val Val  
 1 5 10 15  
 gtc ctg ggg ctg cgg gca gca cca gcc ggc ggc cag cac tat cta cac 516  
 Val Leu Gly Leu Arg Ala Ala Pro Ala Gly Gly Gln His Tyr Leu His  
 20 25 30  
 atc cgc cca gca ccc agc gac aac ctg ccc ttg gtg gac ctc atc gaa 564  
 Ile Arg Pro Ala Pro Ser Asp Asn Leu Pro Leu Val Asp Leu Ile Glu  
 35 40 45  
 cat cca gac cct atc ttt gac cct aag gag aag gat ctg aac gag acg 612  
 His Pro Asp Pro Ile Phe Asp Pro Lys Glu Lys Asp Leu Asn Glu Thr  
 50 55 60  
 ctg ctg cgc tcg ctg ctc ggg ggc cac tac gac ccg ggc ttt atg gcc 660  
 Leu Leu Arg Ser Leu Leu Gly Gly His Tyr Asp Pro Gly Phe Met Ala  
 65 70 75 80  
 act tcg ccc cca gag gac cga ccc gga ggg ggc ggg gga ccg gct gga 708  
 Thr Ser Pro Pro Glu Asp Arg Pro Gly Gly Gly Gly Gly Pro Ala Gly  
 85 90 95

ggt gcc gag gac ctg gcg gag ctg gac cag ctg ctg cgg cag cgg ccg 756  
 Gly Ala Glu Asp Leu Ala Glu Leu Asp Gln Leu Leu Arg Gln Arg Pro  
 100 105 110  
  
 tcg ggg gcc atg ccg agc gag atc aaa ggg ctg gag ttc tcc gag ggc 804  
 Ser Gly Ala Met Pro Ser Glu Ile Lys Gly Leu Glu Phe Ser Glu Gly  
 115 120 125  
  
 ttg gcc caa ggc aag aaa cag cgc ctg agc aag aag ctg agg agg aag 852  
 Leu Ala Gln Gly Lys Lys Gln Arg Leu Ser Lys Lys Leu Arg Arg Lys  
 130 135 140  
  
 tta cag atg tgg ctg tgg tca cag acc ttc tgc ccg gtg ctg tac gcg 900  
 Leu Gln Met Trp Leu Trp Ser Gln Thr Phe Cys Pro Val Leu Tyr Ala  
 145 150 155 160  
  
 tgg aat gac cta ggc agc cgc ttt tgg cca cgc tac gtg aag gtg ggc 948  
 Trp Asn Asp Leu Gly Ser Arg Phe Trp Pro Arg Tyr Val Lys Val Gly  
 165 170 175  
  
 agc tgc ttc agc aag cgc tcc tgc tct gtg ccc gag ggc atg gtg tgt 996  
 Ser Cys Phe Ser Lys Arg Ser Cys Ser Val Pro Glu Gly Met Val Cys  
 180 185 190  
  
 aag cca tcc aag tct gtg cac ctc acg gtg ctg cgg tgg cgc tgt cag 1044  
 Lys Pro Ser Lys Ser Val His Leu Thr Val Leu Arg Trp Arg Cys Gln  
 195 200 205  
  
 cgg cgc ggg ggt cag cgc tgc ggc tgg att ccc atc cag tac ccc atc 1092  
 Arg Arg Gly Gly Gln Arg Cys Gly Trp Ile Pro Ile Gln Tyr Pro Ile  
 210 215 220  
  
 att tcc gag tgt aag tgt tcc tgc tagaactcgg gggggggcccc tgccccgcgcc 1146  
 Ile Ser Glu Cys Lys Cys Ser Cys  
 225 230  
  
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<210> 11  
 <211> 232  
 <212> PRT  
 <213> mouse

<400> 11  
 Met Glu Arg Cys Pro Ser Leu Gly Val Thr Leu Tyr Ala Leu Val Val  
 1 5 10 15

Val Leu Gly Leu Arg Ala Ala Pro Ala Gly Gly Gln His Tyr Leu His  
 20 25 30

Ile Arg Pro Ala Pro Ser Asp Asn Leu Pro Leu Val Asp Leu Ile Glu  
 35 40 45

His Pro Asp Pro Ile Phe Asp Pro Lys Glu Lys Asp Leu Asn Glu Thr  
 50 55 60

Leu Leu Arg Ser Leu Leu Gly Gly His Tyr Asp Pro Gly Phe Met Ala  
 65 70 75 80

Thr Ser Pro Pro Glu Asp Arg Pro Gly Gly Gly Gly Gly Pro Ala Gly  
 85 90 95

Gly Ala Glu Asp Leu Ala Glu Leu Asp Gln Leu Leu Arg Gln Arg Pro  
 100 105 110

Ser Gly Ala Met Pro Ser Glu Ile Lys Gly Leu Glu Phe Ser Glu Gly  
 115 120 125

Leu Ala Gln Gly Lys Lys Gln Arg Leu Ser Lys Lys Leu Arg Arg Lys  
 130 135 140

Leu Gln Met Trp Leu Trp Ser Gln Thr Phe Cys Pro Val Leu Tyr Ala  
 145 150 155 160

Trp Asn Asp Leu Gly Ser Arg Phe Trp Pro Arg Tyr Val Lys Val Gly  
 165 170 175

Ser Cys Phe Ser Lys Arg Ser Cys Ser Val Pro Glu Gly Met Val Cys  
 180 185 190

Lys Pro Ser Lys Ser Val His Leu Thr Val Leu Arg Trp Arg Cys Gln  
 195 200 205

Arg Arg Gly Gly Gln Arg Cys Gly Trp Ile Pro Ile Gln Tyr Pro Ile  
 210 215 220

Ile Ser Glu Cys Lys Cys Ser Cys  
 225 230

<210> 12

<211> 18

<212> DNA

<213> Artificial Sequence

09097222-070204



<220>

<223> Description of Artificial Sequence:primer

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<223> n=a, c, g, or t

<220>

<221> modified\_base

<222> (15)

<223> n=a, c, g, or t

<220>

<221> modified\_base

<222> (18)

<223> n=a, c, g, or t

<400> 12

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<210> 13

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer

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<222> (9)

<223> n=a, c, g, or t

<220>

<221> modified\_base

<222> (12)

<223> n=a, c, g, or t

<220>

<221> modified\_base

<222> (18)

<223> n=a, c, g, or t

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<221> modified\_base

<222> (24)

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<210> 16  
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<212> DNA  
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<223> Description of Artificial Sequence:primer

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<222> (3)

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<221> modified\_base

<222> (9)

<223> n=a, c, g, or t

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<221> modified\_base

<222> (15)

<223> n=a, c, g, or t

<400> 16

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<210> 17

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

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<221> modified\_base

<222> (3)

<223> n=a, c, g, or t

<220>

<221> modified\_base

<222> (12)

<223> n=a, c, g, or t

<400> 17

cknckytgrc anckcca

17

<210> 18

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide

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cagatgtggc tgtggtca

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<210> 19

<211> 6

<212> PRT

<213> mouse

<400> 19

Gln Met Trp Leu Trp Ser

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<210> 20

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:oligonucleotide

<400> 20

gcaggaacac ttacactc

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<210> 21

<211> 6

<212> PRT

<213> mouse

<400> 21

Glu Cys Lys Cys Ser Cys

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<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:oligonucleotide

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